



## SEQUENCE LISTING

<110> LITTLE, MELVYN  
KIPRIYANOV, SERGEY  
MOLDENHAUER, GERHARD  
DEUTSCHES KREBSFORSCHUNGSZENTRUM

<120> MUTATED OKT3 ANTIBODY

<130> 035280047US00

<140> 09/424,705

<141> 2000-06-02

<150> PCT/DE98/01409

<151> 1998-05-22

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<170> FastSEQ for Windows Version 4.0

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<211> 909

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (28)...(900)

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Met Lys Tyr Leu Leu Pro Thr Ala Ala  
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gct ggc ttg ctg ctg ctg gca gct cag ccg gcc atg gcg cag gtg cag 102  
Ala Gly Leu Leu Leu Leu Ala Ala Gln Pro Ala Met Ala Gln Val Gln  
10 15 20 25

ctg cag cag tct ggg gct gaa ctg gca aga cct ggg gcc tca gtg aag 150  
Leu Gln Gln Ser Gly Ala Glu Leu Ala Arg Pro Gly Ala Ser Val Lys  
30 35 40

atg tcc tgc aag gct tct ggc tac acc ttt act agg tac acg atg cac 198  
Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Arg Tyr Thr Met His  
45 50 55

tgg gta aaa cag agg cct gga cag ggt ctg gaa tgg att gga tac att 246  
Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly Tyr Ile  
60 65 70

aat cct agc cgt ggt tat act aat tac aat cag aag ttc aag gac aag 294  
Asn Pro Ser Arg Gly Tyr Thr Asn Tyr Asn Gln Lys Phe Lys Asp Lys  
75 80 85

gcc aca ttg act aca gac aaa tcc tcc agc aca gcc tac atg caa ctg Ala Thr Leu Thr Thr Asp Lys Ser Ser Ser Thr Ala Tyr Met Gln Leu 90 95 100 105	342
agc agc ctg aca tct gag gac tct gca gtc tat tac tgt gca aga tat Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg Tyr 110 115 120	390
tat gat gat cat tac agc ctt gac tac tgg ggc caa ggc acc act ctc Tyr Asp Asp His Tyr Ser Leu Asp Tyr Trp Gly Gln Gly Thr Thr Leu 125 130 135	438
aca gtc tcc tca gcc aaa aca aca ccc aag ctt gaa gaa ggt gaa ttt Thr Val Ser Ser Ala Lys Thr Thr Pro Lys Leu Glu Glu Gly Glu Phe 140 145 150	486
tca gaa gca cgc gta gat atc gtg ctc act cag tct cca gca atc atg Ser Glu Ala Arg Val Asp Ile Val Leu Thr Gln Ser Pro Ala Ile Met 155 160 165	534
tct gca tct cca ggg gag aag gtc acc atg acc tgc agt gcc agc tca Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser 170 175 180 185	582
agt gta agt tac atg aac tgg tac cag cag aag tca ggc acc tcc ccc Ser Val Ser Tyr Met Asn Trp Tyr Gln Gln Lys Ser Gly Thr Ser Pro 190 195 200	630
aaa aga tgg att tat gac aca tcc aaa ctg gct tct gga gtc cct gct Lys Arg Trp Ile Tyr Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Ala 205 210 215	678
cac ttc agg ggc agt ggg tct ggg acc tct tac tct ctc aca atc agc His Phe Arg Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser 220 225 230	726
ggc atg gag gct gaa gat gct gcc act tat tac tgc cag cag tgg agt Gly Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser 235 240 245	774
agt aac cca ttc acg ttc ggc tcg ggg aca aag ttg gaa ata aac cgg Ser Asn Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Asn Arg 250 255 260 265	822
gct gat act gca cca act gga tcc gaa caa aag ctg atc tca gaa gaa Ala Asp Thr Ala Pro Thr Gly Ser Glu Gln Lys Leu Ile Ser Glu Glu 270 275 280	870
gac cta aac tca cat cac cat cac cat cac taatctaga Asp Leu Asn Ser His His His His His His 285 290	909

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 <212> PRT  
 <213> Homo sapiens

<400> 2

Met Lys Tyr Leu Leu Pro Thr Ala Ala Ala Gly Leu Leu Leu Leu Ala  
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20 25 30  
Leu Ala Arg Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly  
35 40 45  
Tyr Thr Phe Thr Arg Tyr Thr Met His Trp Val Lys Gln Arg Pro Gly  
50 55 60  
Gln Gly Leu Glu Trp Ile Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr  
65 70 75 80  
Asn Tyr Asn Gln Lys Phe Lys Asp Lys Ala Thr Leu Thr Thr Asp Lys  
85 90 95  
Ser Ser Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp  
100 105 110  
Ser Ala Val Tyr Tyr Cys Ala Arg Tyr Tyr Asp Asp His Tyr Ser Leu  
115 120 125  
Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser Ala Lys Thr  
130 135 140  
Thr Pro Lys Leu Glu Glu Gly Glu Phe Ser Glu Ala Arg Val Asp Ile  
145 150 155 160  
Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly Glu Lys  
165 170 175  
Val Thr Met Thr Cys Ser Ala Ser Ser Val Ser Tyr Met Asn Trp  
180 185 190  
Tyr Gln Gln Lys Ser Gly Thr Ser Pro Lys Arg Trp Ile Tyr Asp Thr  
195 200 205  
Ser Lys Leu Ala Ser Gly Val Pro Ala His Phe Arg Gly Ser Gly Ser  
210 215 220  
Gly Thr Ser Tyr Ser Leu Thr Ile Ser Gly Met Glu Ala Glu Asp Ala  
225 230 235 240  
Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Phe Thr Phe Gly  
245 250 255  
Ser Gly Thr Lys Leu Glu Ile Asn Arg Ala Asp Thr Ala Pro Thr Gly  
260 265 270  
Ser Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Ser His His His  
275 280 285  
His His His  
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<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (28)...(897)

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54

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Ala Gly Leu Leu Leu Leu Ala Ala Gln Pro Ala Met Ala Gln Val Gln

102

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ctg cag cag tct ggg gct gaa ctg gca aga cct ggg gcc tca gtg aag	150			
Leu Gln Gln Ser Gly Ala Glu Leu Ala Arg Pro Gly Ala Ser Val Lys				
30 35 40				
atg tcc tgc aag gct tct ggc tac acc ttt act agg tac acg atg cac	198			
Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Arg Tyr Thr Met His				
45 50 55				
tgg gta aaa cag agg cct gga cag ggt ctg gaa tgg att gga tac att	246			
Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly Tyr Ile				
60 65 70				
aat cct agc cgt ggt tat act aat tac aat cag aag ttc aag gac aag	294			
Asn Pro Ser Arg Gly Tyr Thr Asn Tyr Asn Gln Lys Phe Lys Asp Lys				
75 80 85				
gac aag gcc aca ttg act aca gac aaa tcc tcc agc aca gcc tac atg	342			
Asp Lys Ala Thr Leu Thr Thr Asp Lys Ser Ser Ser Thr Ala Tyr Met				
90 95 100 105				
caa ctg agc agc ctg aca tct gag gac tct gca gtc tat tac tgt gca	390			
Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala				
110 115 120				
aga tat tat gat gat cat tac agc ctt gac tac tgg ggc caa ggc acc	438			
Arg Tyr Tyr Asp Asp His Tyr Ser Leu Asp Tyr Trp Gly Gln Gly Thr				
125 130 135				
act ctc aca gtc tcc tca gcc aaa aca aca ccc aag ctt ggc ggt gat	486			
Thr Leu Thr Val Ser Ser Ala Lys Thr Thr Pro Lys Leu Gly Gly Asp				
140 145 150				
atc ttg ctc acc caa act cca gct tct ttg gct gtg tct cta ggg cag	534			
Ile Leu Leu Thr Gln Thr Pro Ala Ser Leu Ala Val Ser Leu Gly Gln				
155 160 165				
agg gcc acc atc tcc tgc aag gcc agc caa agt gtt gat tat gat ggt	582			
Arg Ala Thr Ile Ser Cys Lys Ala Ser Gln Ser Val Asp Tyr Asp Gly				
170 175 180 185				
gat agt tat ttg aac tgg tac caa cag att cca gga cag cca ccc aaa	630			
Asp Ser Tyr Leu Asn Trp Tyr Gln Gln Ile Pro Gly Gln Pro Pro Lys				
190 195 200				
ctc ctc atc tat gat gca tcc aat cta gtt tct ggg atc cca ccc agg	678			
Leu Leu Ile Tyr Asp Ala Ser Asn Leu Val Ser Gly Ile Pro Pro Arg				
205 210 215				
ttt agt ggc agt ggg tct ggg aca gac ttc acc ctc aac atc cat cct	726			
Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His Pro				
220 225 230				
gtg gag aag gtg gat gct gca acc tat cac tgt cag caa agt act gag	774			
Val Glu Lys Val Asp Ala Ala Thr Tyr His Cys Gln Gln Ser Thr Glu				
235 240 245				

E1

gat ccg tgg acg ttc ggt gga ggc acc aag ctg gaa atc aaa cgg gct 822  
 Asp Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Ala  
 250 255 260 265

gat gct gcg gcc gct gga tcc gaa caa aag ctg atc tca gaa gaa gac 870  
 Asp Ala Ala Ala Ala Gly Ser Glu Gln Lys Leu Ile Ser Glu Glu Asp  
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cta aac tca cat cac cat cac cat cac taaagatct 906  
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<210> 4  
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 Leu Ala Arg Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly  
 35 40 45  
 Tyr Thr Phe Thr Arg Tyr Thr Met His Trp Val Lys Gln Arg Pro Gly  
 50 55 60  
 Gln Gly Leu Glu Trp Ile Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr  
 65 70 75 80  
 Asn Tyr Asn Gln Lys Phe Lys Asp Lys Asp Lys Ala Thr Leu Thr Thr  
 85 90 95  
 Asp Lys Ser Ser Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser  
 100 105 110  
 Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg Tyr Tyr Asp Asp His Tyr  
 115 120 125  
 Ser Leu Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser Ala  
 130 135 140  
 Lys Thr Thr Pro Lys Leu Gly Gly Asp Ile Leu Leu Thr Gln Thr Pro  
 145 150 155 160  
 Ala Ser Leu Ala Val Ser Leu Gly Gln Arg Ala Thr Ile Ser Cys Lys  
 165 170 175  
 Ala Ser Gln Ser Val Asp Tyr Asp Gly Asp Ser Tyr Leu Ash Trp Tyr  
 180 185 190  
 Gln Gln Ile Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Asp Ala Ser  
 195 200 205  
 Asn Leu Val Ser Gly Ile Pro Pro Arg Phe Ser Gly Ser Gly Ser Gly  
 210 215 220  
 Thr Asp Phe Thr Leu Asn Ile His Pro Val Glu Lys Val Asp Ala Ala  
 225 230 235 240  
 Thr Tyr His Cys Gln Gln Ser Thr Glu Asp Pro Trp Thr Phe Gly Gly  
 245 250 255  
 Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala Ala Ala Ala Gly Ser  
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 275 280 285  
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E1

290

<210> 5  
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<220>  
 <221> CDS  
 <222> (28)...(891)

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gct ggc ttg ctg ctg ctg gca gct cag ccg gcc atg gcg cag gtg cag 102  
 Ala Gly Leu Leu Leu Leu Ala Ala Gln Pro Ala Met Ala Gln Val Gln  
 10 15 20 25

ctg cag cag tct ggg gct gag ctg gtg agg cct ggg tcc tca gtg aag 150  
 Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly Ser Ser Val Lys  
 30 35 40

att tcc tgc aag gct tct ggc tat gca ttc agt agc tac tgg atg aac 198  
 Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Tyr Trp Met Asn  
 45 50 55

tgg gtg aag cag agg cct gga cag ggt ctt gag tgg att gga cag att 246  
 Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly Gln Ile  
 60 65 70

tgg cct gga gat ggt gat act aac tac aat gga aag ttc aag ggt aaa 294  
 Trp Pro Gly Asp Gly Asp Thr Asn Tyr Asn Gly Lys Phe Lys Gly Lys  
 75 80 85

gcc act ctg act gca gac gaa tcc tcc agc aca gcc tac atg caa ctc 342  
 Ala Thr Leu Thr Ala Asp Glu Ser Ser Ser Thr Ala Tyr Met Gln Leu  
 90 95 100 105

agc agc cta gca tct gag gac tct gcg gtc tat ttc tgt gca aga cgg 390  
 Ser Ser Leu Ala Ser Glu Asp Ser Ala Val Tyr Phe Cys Ala Arg Arg  
 110 115 120

gag act acg acg gta ggc cgt tat tac tat gct atg gac tac tgg ggt 438  
 Glu Thr Thr Thr Val Gly Arg Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly  
 125 130 135

caa gga acc tca gtc acc gtc tcc tca gcc aaa aca aca ccc aag ctt 486  
 Gln Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Pro Lys Leu  
 140 145 150

ggc ggt gat atc gtg ctc act cag tct cca gca atc atg tct gca tct 534  
 Gly Gly Asp Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser  
 155 160 165

cca ggg gag aag gtc acc atg acc tgc agt gcc agc tca agt gta agt 582

E1

Pro Gly Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser Ser Val Ser	
170 175 180 185	
tac atg aac tgg tac cag cag aag tca ggc acc tcc ccc aaa aga tgg	630
Tyr Met Asn Trp Tyr Gln Gln Lys Ser Gly Thr Ser Pro Lys Arg Trp	
190 195 200	
att tat gac aca tcc aaa ctg gct tct gga gtc cct gct cac ttc agg	678
Ile Tyr Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Ala His Phe Arg	
205 210 215	
ggc agt ggg tct ggg acc tct tac tct ctc aca atc agc ggc atg gag	726
Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Gly Met Glu	
220 225 230	
gct gaa gat gct gcc act tat tac tgc cag cag tgg agt agt aac cca	774
Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro	
235 240 245	
ttc acg ttc ggc tcg ggg aca aag ttg gaa ata aac cgg gct gat act	822
Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Asn Arg Ala Asp Thr	
250 255 260 265	
gca cca act gga tcc gaa caa aag ctg atc tca gaa gaa gac cta aac	870
Ala Pro Thr Gly Ser Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn	
270 275 280	
tca cat cac cat cac cat cac taatctaga	900
Ser His His His His His His	
285	

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 <211> 288  
 <212> PRT  
 <213> Homo sapiens

<400> 6

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Leu Val Arg Pro Gly Ser Ser Val Lys Ile Ser Cys Lys Ala Ser Gly	
35 40 45	
Tyr Ala Phe Ser Ser Tyr Trp Met Asn Trp Val Lys Gln Arg Pro Gly	
50 55 60	
Gln Gly Leu Glu Trp Ile Gly Gln Ile Trp Pro Gly Asp Gly Asp Thr	
65 70 75 80	
Asn Tyr Asn Gly Lys Phe Lys Gly Lys Ala Thr Leu Thr Ala Asp Glu	
85 90 95	
Ser Ser Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu Ala Ser Glu Asp	
100 105 110	
Ser Ala Val Tyr Phe Cys Ala Arg Arg Glu Thr Thr Thr Val Gly Arg	
115 120 125	
Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val	
130 135 140	
Ser Ser Ala Lys Thr Thr Pro Lys Leu Gly Gly Asp Ile Val Leu Thr	

145		150		155		160
Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly Glu Lys Val Thr Met						
	165		170		175	
Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met Asn Trp Tyr Gln Gln						
	180		185		190	
Lys Ser Gly Thr Ser Pro Lys Arg Trp Ile Tyr Asp Thr Ser Lys Leu						
	195		200		205	
Ala Ser Gly Val Pro Ala His Phe Arg Gly Ser Gly Ser Gly Thr Ser						
	210		215		220	
Tyr Ser Leu Thr Ile Ser Gly Met Glu Ala Glu Asp Ala Ala Thr Tyr						
	225		230		235	
Tyr Cys Gln Gln Trp Ser Ser Asn Pro Phe Thr Phe Gly Ser Gly Thr						
	245		250		255	
Lys Leu Glu Ile Asn Arg Ala Asp Thr Ala Pro Thr Gly Ser Glu Gln						
	260		265		270	
Lys Leu Ile Ser Glu Glu Asp Leu Asn Ser His His His His His His						
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<210> 7  
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 <212> DNA  
 <213> Homo sapiens

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24

<210> 8  
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 <212> DNA  
 <213> Homo sapiens

<400> 8  
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32

<210> 9  
 <211> 32  
 <212> DNA  
 <213> Homo sapiens

<400> 9  
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32

<210> 10  
 <211> 38  
 <212> DNA  
 <213> Homo sapiens

<400> 10  
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38

<210> 11  
 <211> 38  
 <212> DNA  
 <213> Homo sapiens

<400> 11  
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38

E1